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Method and Apparatus for Averaging Out Variations in Run-to-Run Path Data of a Computer Program

REPLACEMENT SHEET

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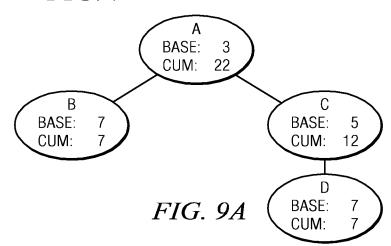
TOTAL: 10 CPU SECONDS								
Lv	RL	CALLS	%B A SE	%CUM	INDENT HkKey_HkName			
0	1	1	0.00	100.00	AC test pidtid			
1	1	1	0.00	100.00	– MAIN			
2	1	1	10.00	40.00	A			
3	1	2	20.00	30.00	B			
4	1	1	10.00	10.00	C			
2	1	1	10.00	60.00	B			
3	1	1	10.00	50.00	A			
4	1	1	10.00	10.00	C			
4	1	1	0.00	30.00	X			
5	1	1	10.00	10.00	+E			
5	1	1	10.00	10.00	+F			
5	1	1	10.00	10.00	+G			

FIG. 7

TRACE DATA FOR EXECUTION OF FIRST BUILD OF COMPUTER PROGRAM

0 pidtid	xyz
3 > A	•
2 > B	
7 < B	
1 > C	
5 > D	
7 < D	

FIG. 8A



TRACE DATA FOR EXECUTION OF SECOND BUILD OF COMPUTER PROGRAM

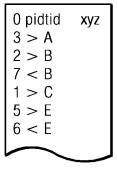
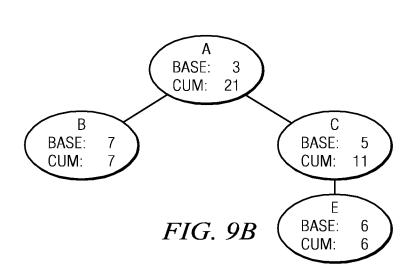


FIG. 8B

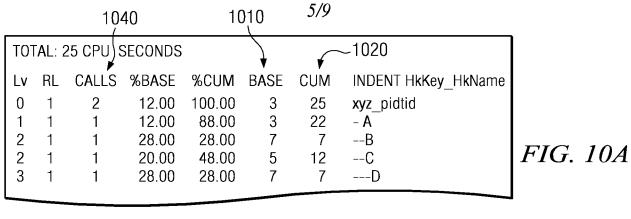


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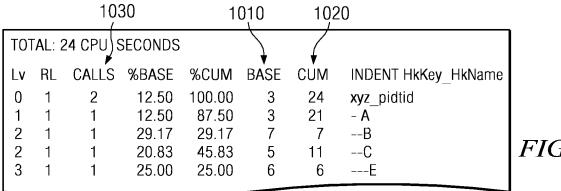
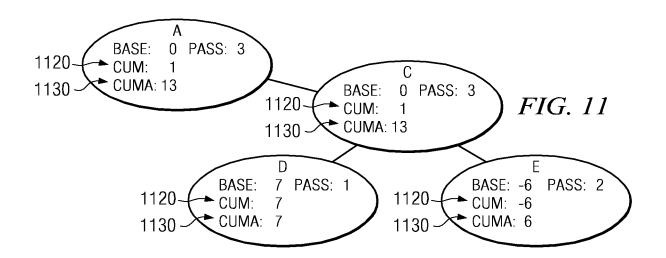


FIG. 10B



TOT	TOTAL: 25 CPU SECONDS IN TREE A USED AS BASE FOR PERCENTAGES									
Lv	RL	CALLS	%B AS E	%CUM	BASE	CUM	CumA	PASS	INDENT HkKey_HkName	
0	1	0	0.00	4.00	0	1	13		difference pidtid	
1	1	0	0.00	4.00	0	1	13	3	- A	
2	1	0	0.00	4.00	0	1	13	3	C	
3	1	1	28.00	28.00	7	7	7	1	D	
3	1	-1	-24.00	-24.00	-6	-6	6	2	E	

FIG. 12

10/777,742 Alexander, III et al. REPLACEMENT Method and Apparatus for Averaging Out Variations **SHEET** in Run-to-Run Path Data of a Computer Program 6/9 **START** 1310 \ OBTAIN TRACE DATA FOR EXECUTION OF PLURALITY OF BUILDS OF COMPUTER PROGRAM 1320-GENERATE CALL TREE DATA STRUCTURE FOR EACH SET OF TRACE DATA SUBTRACT ONE CALL TREE DATA STRUCTURE 1330 -FROM ANOTHER CALL TREE DATA STRUCTURE GENERATE SUBTRACTION CALL TREE DATA STRUCTURE FROM RESULT OF SUBTRACTION 1340 **OUTPUT SUBTRACTION CALL TREE DATA STRUCTURE** 1350 -FIG. 13 **END** Α BASE: 3 25 CUM: В C BASE: BASE: 7 5 CUM: CUM: 15 D BASE: 10 FIG. 14A CUM: 10 Α BASE: 3 CUM: 21 В C BASE: 7 BASE: 5 CUM: CUM: 11 BASE: 12 88 D CUM: BASE: 6 C FIG. 14B 6 CUM: BASE: BASE: 28 20 28 CUM: 48 D

BASE:

CUM:

28

28

CUM:

FIG. 14C

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Lv	RL	CALLS	%BASE	%CU M	BASE	CUM	CumA	INDENT HkKey_HkName
0	1	3	12.16	100.00	9	74	74	bigtree pidtid
1	1	3	12.16	87.84	9	65	65	- A
2	1	3	28.38	28.38	21	21	21	B
2	1	3	20.27	47.30	15	35	35	C
3	1	2	18.92	18.92	14	14	14	D
3	1	1	8.11	8.11	6	6	6	E

FIG. 15

